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INFORMATION DISCLOSURE	Filing Date	26 May 2005
STATEMENT BY APPLICANT	First Named Inventor	Bulthuis et al.
	Group Art Unit	Not Assigned
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				U.S. PATENT DOCU	MENTS	
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Pak	· A1	2001/0051018	Al	Arai et al.	12-13-2001	385/74
P90	A2	5,044,715		Kawachi et al	09-19-1991	385/42
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RAN	<b>B</b> 1		EP 0 382 461		Kawachi et al.	08-16-1990	GODB	6/28	
1998	B2		EP 0 610 973	3	Yamauchi et al.	08-17-1994	GOAB.	6/28	
POW	B3		JP 07281041		Shirata Tomoyuki et al.	10-27-1995	GOLB	6/122	
P90	B4		WO 2004/0171	12 A1	Van der Vliet et al.	02-26-2004	GOAB	6/26	
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Application Number	GEML 4671-3				
Filing Date	10/536,570				
First Named Inventor	Bulthuis et al.				
Group Art Unit .	Not Assigned				
Examiner Name	Not Assigned				
Attorney Docket Number	26 May 2005				

***		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	L3
Pag	)C1	HASHIZUME Y ET AL. "Integrated polarisation beam splitter using waveguide birefringence dependence on waveguide core width" ELECTRONIS LETTERS, IEE STEVENAGE, GB, vol. 37, no. 25, 6 December 2001, pgs. 1517-1518, XP006017649 ISSN: 0013-5194 * sections "Design", "Experimental results"; figure 1	
Dy	C2	LAI Q ET AL. "Tunable wavelength-selection switch and multiplexer/demultiplexer based on asymmetric silica-on-silicon Mach-Zehnder interferometer" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 34, no. 3, 5 Feb. 1998 (1998-02-05) pgs. 266-267, XP006009267 ISSN: 0013-5194	
DOP	C3	BESSE P A ET AL. "Optical Bandwidth & Fabrication Tolerances of Multimode Interference Couplers"  JOURNAL OF LIGHTWAVE TECHNOLOGY, IEEE. NY, US, vol. 12, no. 6, 1 June 1994 (1994-06-01)  pgs. 1004-1009, XP000484218 ISSN: 0733-8724, sections II, III; fig. 1,3	
DOP	C4	HONG J-K, KIM J-H, LEE S-S: "Low-power thermooptic silica-on-cilicon MZI switch using multimode interference couplers" SILICON-BASED & HYBRID OPTOELECTRONICS IV, SPIE PROCEEDINGS, vol. 4654, 28 March 2002 pgs 157-163, XP002277219	
PA	C5	SOLDANO L B ET AL: "Optical Multi-Mode Interference Devices Based on Self-Imaging: Principles & Applications" Journal of Lighwave Technology, IEEE. NY, US, vol. 13, no. 4, 1 April 1995, pgs. 615-627, XP000513578 ISSN: 0733-8724, sections IV-VI; fig. 4	
DAS	C6	LEE CC ET AL: "2 X 2 Single-Mode Zero-Gap Directional-Coupler Thermo-Optic Waveguide Switch on Glass" Applied Optics, Optical Society of America, Washington, US, vol. 33, no. 30, 20 Oct. 1994, pgs. 7016-7022, XP000476203 ISSN: 0003-6935 section 2; fig. 4	
DAY	)C7	SOLDANO L B ET AL: "Large Optical Bandwidth of INGAASP/INP Multi-Mode Interference 3-DBcouplers" Proceedings Europena Conference on Integrated Optics with Technical Exhibition, 1993, pgs 1-4, XP000522450	
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